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Boston College

COLLEGE OF

ARTS and SCIENCES



ENTRANCE REQUIREMENTS

1945

Chestnut Hill, Massachusetts

THIS supplement has been prepared for the guidance of prospective students of Boston College. Naturally, it is condensed in form, but it contains all the essential facts concerning admission requirements, courses, war programs, etc.

It is clear that institutions of higher learning are faced with the problem, difficult of solution, of training young men for the immediate as well as for the remote future, of training them for a manful part in the great national effort for victory as well as for a world after victory. The urgency of the present and immediate demands on youth calls for courses of instruction that will directly contribute to the efforts of our nation at war; while the future of our own nation as well as the future of youth call for courses of instruction that will contribute to the well-being of both, after the war. For both the war and the peace must be won.

Consequently, more emphasis must be placed on the study of Mathematics and the Natural Sciences; opportunities for specialization in these subjects must be widened; individual plans of study must include fundamental courses in these fields; courses recommended by the War and Navy Departments, as directly contributing to the pre-military training of the student, must have their place.

By the same token, more, not less emphasis must be placed on Social Science, for students must be made aware of their social responsibilities as citizens of America and of the World. More, not less emphasis must be placed on the history and language of modern foreign nations, for it is through these studies that the road to better understanding and riper friendship lies. More, not less emphasis must be placed on Philosophy as the integrating and co-ordinating science of life, action and thought.

Boston College is keenly alive to the problems facing higher education today and will make every effort to equip her students for their place in the conflict and in peace, after the conflict.

ACADEMIC YEAR

Our government requested that institutions of higher learning follow accelerated programs. In response to this request Boston College introduced an accelerated program of study. It is possible for students to complete all degree requirements in a period of three years.

While vacation periods have been shortened, and holidays granted more infrequently, courses of study and content of curriculum are in no way lessened.



Programs of study have been accelerated with no deviation from qualitative or quantitative standards. Acceleration will not be permitted to become mere haste. For not by haste can there be sound training and education of the youth of America for intelligent and thorough participation in America's destiny.

RELIGIOUS TRAINING

While Boston College is a Catholic college, in the admission of students no discrimination is made on the grounds of religious belief. Religious instruction is given in class periods* which form an integral element of the curriculum. The formal instruction is supported by various spiritual extra-curricular activities and practices. A Student Counsellor is available at all times to the student. Finally, there is an all pervading background against which all the individual elements, which must be the staple of sound education for the immediate future as well as for the post-war world, are projected. Religion plays no small part in the formation of loyal citizens and will always be a factor in the lives of individuals as well as of our nation.

*Non-Catholic students are free to attend this instruction.

ENTRANCE REQUIREMENTS

GENERAL STATEMENT

Entrance requirements are administered by the Committee on Admissions. Applications for admission to Boston College must be filed with the Dean of Freshmen at least one week before the date of Entrance Examinations. After each application has been examined by the Committee on Admissions, the candidate will be notified as to his eligibility for admission to the Entrance Examinations. Examinations will be conducted according to schedule on the last page of this bulletin.

SCHOLARSHIP EXAMINATIONS

Each year Boston College awards a number of full and partial scholarships. These awards are made on the results of competitive examinations.

In order to qualify for the Scholarship Examinations, certification in at least five secondary school subjects is necessary.

Scholarship Examinations will be held, according to the schedule on the last page of this bulletin.

EXAMINATION FEE

There is a fee of five dollars for Scholarship and Entrance Examinations. The fee is to be made payable to the Treasurer of Boston College and forwarded to the Dean of Freshmen, Boston College, Chestnut Hill 67, Mass.

The additional fee for late Entrance Examinations or registration will be three dollars.

COURSES AND REQUIREMENTS FOR DEGREE

GENERAL

It is axiomatic of Jesuit Education that genuine education demands the supervision and control of trained and experienced teachers and is not a thing to be regulated by the inexperienced students. To-day, more than ever before, in the midst of bewilderment and vagueness, rigidly supervised courses of instruction with clear objectives, sound philosophy and training, adequate for the needs of today as well as for tomorrow, are imperative. The attitudes and aptitudes of the student must be carefully explored, his mind conditioned to the demands of narrow specialization. Therefore, a harmonious sequence

of courses must be arranged, with courses in Language, History, Mathematics, the Natural Sciences and Philosophy forming the core of a prescribed curriculum.

Together with these courses more specialized fields are integrated and intensive training in the Languages and Literature or Mathematics and the Natural Sciences or in the Social Sciences is not only possible, but is desirable.

The College at the present time confers two academic degrees, Bachelor of Arts (A. B.), and Bachelor of Science (B. S.). Individual courses of study, which will be found on subsequent pages, are consequently arranged in two groups, each one leading to one of these two degrees. Within the Bachelor of Science group, there are again eight groups, since all students registering for this degree are expected to concentrate in one of the following fields: Biology, Chemistry, Physics, Electrical Engineering, Mathematics, History, Education, Social Science.

Registrants for the degrees of Bachelor of Arts and Bachelor of Science in the various sciences and the non-degree Pre-Medical course must present written evidence that fifteen (15) units of work have been completed in an accredited secondary school; these units must be approved by the Committee on Admissions. The distribution of these units must be as follows:

BACHELOR OF ARTS

Plane Geometry	1	Latin	3
English	4	Elementary Algebra	1
Other units 6			

Bachelor of Science in Biology, Chemistry, Physics, Electrical Engineering, Mathematics, and non-degree Pre-Medical Course

Plane Geometry	1	Science	1
English	4	Algebra	1½
Other units 7½			

Bachelor of Science in History, Education and Social Science

Plane Geometry	1	U.S. History or	
English	4	U.S. History and	1
Elementary Algebra	1	Civil Government	

Other units 8

All applicants for admission to Boston College, in addition to satisfying the general unit requirements must receive passing grades in the Boston College Entrance Examinations. These examinations consist of a series of objective tests designed to measure aptitude and achievement.

REQUIRED EXAMINATIONS

Candidates applying for the Bachelor of Arts course:

Elementary Algebra	Latin
Plane Geometry	English

Candidates applying for the Bachelor of Science courses with majors in Biology, Chemistry, Physics, Mathematics, Electrical Engineering, and Non-degree Pre-Medical:

Intermediate Algebra
Plane Geometry
One science (Biology, Physics, or Chemistry.)
English

Candidates applying for the Bachelor of Science courses with majors in Education, History and Social Science:

Elementary Algebra	United States History
Plane Geometry	English

FIELD OF CONCENTRATION

In addition to prescribed courses in Language, Mathematics, Science, Philosophy, all students must choose a Field of Concentration. In this choice the provocative factor should be the students' prospective place in the emergency and in the remote future.

Candidates for the Degree *Bachelor of Science* must choose a Field of Concentration on admission to the College. The choice will lie among the Natural Sciences of Biology, Chemistry, Physics, Engineering, Mathematics, and the Social Sciences (Education, History, Economics, Political Science, Sociology).

Candidates for the degree of *Bachelor of Arts* must, before the end of the sophomore year, choose a Field of Con-

centration. For such students study in a Field of Concentration comprises:

- (a) 24 semester hours of instruction in a unified field of studies, such as Economics, Chemistry, Physics, History.
- (b) assigned reading or investigation in designated subjects.
- (c) a thesis in some portion of the Field of Concentration.

ALLIED FIELD

To guard against the defects of narrow specialization, each student must obtain at least 12 semester hours credit in a field allied to the Field of Concentration. Allied Fields are arranged below, horizontally:

- I. Language and Literature.
English, French, German, Greek, Italian, Latin, Portuguese, Spanish.
- II. Social Sciences.
Economics, Education, History, Philosophy, Political Science, Sociology.
- III. Natural Sciences and Mathematics.
Biology, Chemistry, Mathematics, Physics.

HONORS WORK

The course leading to the degree of Bachelor of Arts with Honors is reserved to the more gifted students, whose secondary school work and entrance examination results indicate that they have the ability to carry a program of intensive academic work. To remain in the Honors Course, students must maintain an average of at least "B" in all major subjects of study.

More intensive classroom work and assignments for personal investigation outside of class than is ordinarily expected will be exacted of Honors Course students.

Students registered in the A.B. Honors course follow the Bachelor of Arts with Greek curriculum.

At the discretion of the Dean of the College, students in Honors may be exempted from regular attendance at classes, but written reports, personal conference with Instructors, group discussions will be required.

VOCATIONAL GUIDANCE AND PLACEMENT

Boston College offers special assistance to students in choosing courses that will best qualify them for their place in the emergency and after the war. The Office of Guidance and Placement helps them in obtaining information concerning vital services that may be rendered in the armed forces and in industry as well as educational and professional opportunities.

To insure the proper choice of courses and career, each Freshman is assigned to a Freshman Advisor, whom he must meet at least four times in the course of his Freshman Year at the College.

Assistance is also offered in solving the problem of employment during the collegiate career of the student.

EDUCATIONAL GUIDANCE

Boston College, realizing that individual adjustment to college life and work is for most students a difficult task, offers educational assistance and direction to her students both in the selection of the courses most valuable to them and in the mastery of the courses selected. In doing this it maintains an educational guidance office with a director of guidance in charge who acts as chairman for a group of professors assigned to this work. The central office by means of interviews, tests and a study of the high school records endeavors to obtain knowledge of the interests, the scholastic background and the general and specific abilities of each student. A specific testing service is maintained for this purpose. The findings of this office are in turn handed over to the committee in charge of guidance. Each professor of this committee is allotted a definite group of students who are required to visit him at definite times during the school year with the understanding that the students may go to him freely at other times. Each counsellor is supplied with data on the student's interests, aptitudes, present achievement and personality traits. Equipped with this information the counsellor is able to aid the student in pursuing his college course more successfully. In addition, instruction in how to study, use the library, and do research work are given individually and by means of printed material and lectures.

STUDENT ORGANIZATIONS

In the past Boston College has offered a varied program of extra-curricular activities, Religious, Academic, Dramatic, Forensic, Athletic. These organizations, suited to the choice and interest of the individual, supplemented the work of the classroom and gave ample opportunity for self-expression, initiative, poise.

It has not been deemed advisable to curtail these activities, but rather to focus all their manifestations more sharply on the conflict, in which we, as a nation, are engaged. Language and Science Academies will be used by the student to acquire new skill which will make a direct contribution to our war effort.

Religious activities will in no way be minimized, for in the formation of the whole man, in the development of a fruitful and purposive life, religion has no substitute.

Dramatic and forensic activities will be used to channel to local communities and clubs correct notions of democracy, freedom, the historic role that America is playing in the present day, post war aims and adjustment. In other words, these activities will serve as builders of morale among the student body as well as among the local civilian population.

Competitive sports will serve to sharpen the competitive instincts of the student and newer lessons of loyalty, cooperation and team-play will be their goal.



ANNUAL EXPENSE REQUIREMENTS

Boston College is not an endowed Institution. Therefore, it is normally dependent for support and development on the fees paid for tuition and for the other collegiate requirements.

SUMMARY OF ANNUAL EXPENSES

Registration—new students, non-refundable	\$ 5.00
Registration—upper classes, non-refundable	1.00
Tuition—for academic year	250.00
*Student Activities—payable semi-annually	24.00
Library—payable semi-annually	10.00
Condition Examinations	5.00
Deficiency Course	20.00
**Certificate of Grades	1.00
Inorganic Chemistry	20.00
Organic Chemistry	40.00
Physical Chemistry	30.00
Qualitative Analysis	15.00
Quantitative Analysis	15.00
Qualitative Organic Analysis	20.00
Biochemistry	20.00
Physics	15.00
Biology	30.00
Graduation	10.00

Holders of full scholarships are not exempt from the payment of Registration, Student Activities, Library or Science Fees at the time prescribed.

SPECIAL WAR EFFORT

WAR AIMS COURSES AND LECTURES

Since the outbreak of the war special Convocations of the student body have been called to present lectures on the War Aims, American Institutions and Christian Culture.

Student forum and discussion programs have been expanded to promote a more intimate knowledge of America's role in the world conflict.

Reading shelves on American Institutions and Culture have been established which contain basic materials on American Institutions, to bring to the student the fundamental principles of the American faith and constitutional government.

*The student Activities Fee subsidizes expenses incidental to the conduct of extra-curricular activities and entitles the student to subscription for the *Stylus and Heights*, to student publications, to athletic reductions, and to participation in physical education.

**No transcript of academic record will be sent from the Registrar's Office during the periods of Final Examinations and Registration.

PHYSICAL EDUCATION

Serious concern about the physical fitness of American youth has led the War and Navy Departments of the United States Government to request that a program of Physical Education for all students be adopted by collegiate institutions.

Therefore, a medical and physical examination of each student will be made on entrance to the College. On the basis of these examinations, advice and direction as to the physical activities to be followed during the collegiate career of the student will be given. This examination will be supplemented by periodical examinations required of all students who are candidates for competitive sports.

Students will be required to participate in a program of physical education. Group calisthenics and games that are basically competitive will form the staple of this program. The purpose will be to improve body control and strength, to stimulate mental and physical alertness, to build reserves of strength for the successful prosecution of the war, to form lasting habits of sound physical exercise.

PROGRAMS OF STUDY

BACHELOR OF ARTS (Greek)

FRESHMAN YEAR	Credit	JUNIOR YEAR	Credit
Latin	6	Philosophy	8
Greek	6	Religion	2
English	6	Concentration ³	12
Language ¹	6	Allied Field ⁴	6
Mathematics	6	Free Elective	6
Physics	8		—
Religion	2		34
	—		
	40		

1. Candidates electing a Modern Language studied two years in secondary school must take the advanced courses in that language.

3. Field of Concentration: 24 semester hours credit must be obtained in one field, sc. Classics, Chemistry, Economics.

4. Allied Field: 12 semester hours credit must be obtained in Junior and Senior Year in a field allied to the Concentration.

SOPHOMORE YEAR

	Credit
Latin	6
Greek and/or ²	
Mathematics	6
Language	6
Religion	2
Chemistry or Elective	8
English	6
	—
	34

SENIOR YEAR

	Credit
Psychology	6
Ethics	6
Religion	2
Concentration	12
Allied Field	6
	—
	32

BACHELOR OF ARTS (Mathematics)

FRESHMAN YEAR

	Credit
English	6
Latin	6
Mathematics	6
Language ¹	6
Religion	2
Physics	8
History	6
	—
	40

JUNIOR YEAR

	Credit
Philosophy	8
Religion	2
Concentration ³	12
Allied Field ⁴	6
Free Elective	6
	—
	34

SOPHOMORE YEAR

	Credit
Latin	6
Mathematics	6
Language	6
Religion	2
English	6
Chemistry	8
	—
	34

SENIOR YEAR

	Credit
Psychology	6
Ethics	6
Religion	2
Concentration	12
Allied Field	6
	—
	32

1. Candidates electing a Modern Language studied two years in secondary school must take the advanced courses in that language.

2. Students who begin the study of Greek at Boston College must take Greek in Sophomore Year. They may take Mathematics as an extra subject. Advanced Greek students may take Greek or Mathematics.

3. Field of Concentration: 24 semester hours credit must be obtained in one field, sc. Classics, Chemistry, Economics.

4. Allied Field: 12 semester hours credit must be obtained in Junior and Senior Year in a field allied to the Concentration.



TWO YEAR NON-DEGREE Pre-Medical Course

FRESHMAN YEAR

	Credit
English	6
Physics	8
Biology	8
Chemistry	8
German or French	6
Religion	2
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SOPHOMORE YEAR

	Credit
English	6
Chemistry	8
German or French	6
Biology	8
Mathematics	6
Religion	2
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	36

BACHELOR OF SCIENCE (Natural Science)

FRESHMAN YEAR

	Credit
English	6
Mathematics	6
Physics	8
Chemistry	8
German	6
Religion	2
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	36

SOPHOMORE YEAR

BIOLOGY		CHEMISTRY		PHYSICS	
	Credit		Credit		Credit
English	6	English	6	English	6
Chemistry	10	Mathematics	6	Mathematics	6
German	6	Chemistry	10	Physics	8
Religion	2	German	6	Chemistry	8
Biology	8	Religion	2	German	6
		Biology	6	Religion	2
	<hr/>		<hr/>		<hr/>
	32		36		36

JUNIOR YEAR

	Credit		Credit		Credit
Philosophy	8	Philosophy	8	Philosophy	8
Religion	2	Religion	2	Religion	2
Biology	8	Chemistry	16	Mathematics	6
Chemistry	8	History	6	Physics	12
History	6			History	6
	<hr/>		<hr/>		<hr/>
	32		32		34

SENIOR YEAR

	Credit		Credit		Credit
Psychology	6	Psychology	6	Psychology	6
Ethics	6	Ethics	6	Ethics	6
Religion	2	Religion	2	Religion	2
Biology	11	Chemistry	13	Mathematics	6
Chemistry	4			Physics	12
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	29		27		32

The Board of Standards reserves to itself the right to cancel courses with insufficient registrations.

BACHELOR OF SCIENCE in Mathematics

FRESHMAN YEAR		JUNIOR YEAR	
	Credit		Credit
Mathematics	6	Philosophy	8
English	6	Religion	2
History	6	Mathematics	12
Religion	2	Electives	12
Language ¹	6		<hr/>
Physics	8		34
	<hr/>		
	34		

SOPHOMORE YEAR

	Credit
Mathematics	6
English	6
History	6
Language	6
Religion	2
Chemistry	8
	<hr/>
	34

SENIOR YEAR

	Credit
Psychology	6
Ethics	6
Religion	2
Mathematics	12
Elective	6
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	32

BACHELOR OF SCIENCE (Education, History,
Economics, Political Science, Sociology)

FRESHMAN YEAR

	Credit
English	6
Mathematics	6
History	6
Religion	2
Language ¹	6
Physics	8
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	34

SOPHOMORE YEAR

	Credit
English	6
History	6
Language	6
Religion	2
Elective I	6
Elective II	6
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	32

JUNIOR YEAR

	Credit
Philosophy	8
Religion	2
Concentration†	18
Allied Field	6
	<hr/>
	34

SENIOR YEAR

	Credit
Psychology	6
Ethics	6
Religion	2
Concentration†	12
Allied Field	6
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	32

1. Candidates electing a Modern Language studied two years in secondary school must take the advanced courses in that language.

†Concentration in the Social Sciences, ie., Economics, Education, Political Science, History or Sociology, is reserved for Junior and Senior Years.

BACHELOR OF SCIENCE (Electrical Engineering)

FRESHMAN YEAR	Credit	JUNIOR YEAR	Credit
English	6	Philosophy	8
Mathematics	6	Religion	2
Physics	8	Mathematics	3
Chemistry	8	Electrical Engineering	
German	6	Principles	10
Religion	2	Electrical Communica-	
Engineering Drawing	2	tions Principles	8
Machine Tools and Design	2	Strength of Materials	4
	—	Electroacoustics	3
	40	Economic Principles	6
			—
			44

SOPHOMORE YEAR	Credit	SENIOR YEAR	Credit
English	6	Psychology	6
Mathematics	6	Ethics	6
Electrical Engineering		Religion	2
Principles	7	Mathematics	3
Electrical Instruments	3	Electrical Engineering	
Thermodynamics	4	Principles	5
Applied Mechanics	7	Electrical Communica-	
Machine Design	4	tions Principles	12
Religion	2	Electronics	4
	—		—
	39		38

The Board of Standards reserves to itself the right to cancel courses with insufficient registration.

CALENDAR — 1945

January 12, 1945—Entrance and Scholarship Examinations.

February 1, 2, 1945—Registration.

February 5, 1945—Formal opening of classes.

May 11, 1945—Entrance and Scholarship Examinations.

June 8, 9, 1945—Registration.

June 11, 1945—Formal opening of classes.

Address all inquiries:

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Freshman Dean

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(Telephone BIGelow 1480)

For information on
THE COLLEGE OF BUSINESS ADMINISTRATION
OF BOSTON COLLEGE

Consult REV. JAMES J. KELLEY, S.J., *Dean*
College of Business Administration
Chestnut Hill 67, Mass.

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